

Clock Oscillators Surface Mount Type KC7050B Series (FXO-34F Series)



CMOS/ 3.3V/ 5.0V/ 7.0×5.0mm



Ph Free

RoHS Compliant

Features

- This crystal oscillator has a built-in high-precision CMOS IC suitable for a wide range of temperature
- Lower noise and lower current for reduced power consumption
- Supply voltage V_{CC} =3.3/ 5.0V available

Frequency Tolerance (Overall)

Freq. Tol. Code	$\times 10^{-6}$	Operating Temperature Range (°C)	Note
P	± 100	-30 to +85 (Standard)	1.8 to 32MHz
Q	± 50		
R	± 30		

How to Order

KC7050B 25.0000 C 3 Q B 00
① ② ③ ④ ⑤ ⑥ ⑦

- ① Type
- ② Output Frequency
- ③ Output Type (CMOS)
- ④ Supply Voltage 5=5.0V, 3=3.3V
- ⑤ Frequency Tolerance (See Table at Left)
- ⑥ Symmetry/ Enable Function
A: 40/ 60%, Disable
B: 40/ 60%, Stand-by
- ⑦ Customer Special Model Suffix (STD Specification is "00")

Symmetry/ Enable Function

Freq. (MHz)	Code	
	KC7050B-C5	KC7050B-C3
1.8 to 7.9	A	A
to 32	B	B

Specifications

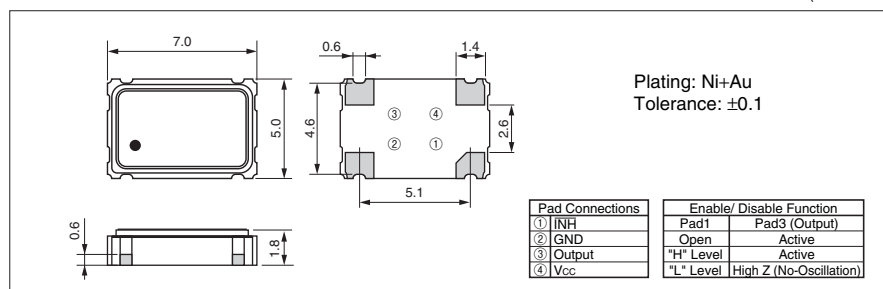
Item	Symbol	Specifications		Units
		KC7050Bxx.xxxxC5xx00 (FXO-34F)	KC7050Bxx.xxxxC3xx00 (FXO-34FL)	
Output Frequency Range	f _o	1.8 to 32		MHz
Frequency Tolerance (Overall)	f _{tol}	±30		×10 ⁻⁶
		±50		
		±100		
Storage Temperature Range	T _{stg}	−40 to +85		°C
Operating Temperature Range	T _{use}	−30 to +85		°C
Max. Supply Voltage	—	7 max.		V
Supply Voltage	V _{CC}	5±5%	3.3±5%	V
Current Consumption	I _{CC}	12 max.	10 max.	mA
Stand-by Current	I _{std}	8 max.		μA
Symmetry	SYM	40 to 60@50%V _{CC}		%
Rise/ Fall Time	t _r / t _f	12 max.	16 max.	nS
Low Level Output Voltage	V _{OL}	10% V _{CC} max.		V
High Level Output Voltage	V _{OH}	90% V _{CC} min.		V
CMOS Load	L _{CMOS}	15 max.		pF
Input Voltage Range	V _{IN}	0 to V _{CC}	0 to V _{CC}	V
Low Level Input Voltage	V _{IL}	0.8 max.	0.3 max.	V
High Level Input Voltage	V _{IH}	2.2 min.	2.2 min.	V
Disable Time	t _{dis}	150 max.		nS
Enable Time	t _{ena}	5 max.		mS
Start-up Time	t _{str}	10 max.		mS

Note: All electrical characteristics are defined at the maximum load and operating temperature range.

Please contact us for inquiry about operating temperature range, available frequencies and other conditions.

Dimensions

(Unit: mm)



Recommended Land Pattern

(Unit: mm)

